## Product data sheet

**Characteristics**

**METSEPM8244**

PowerLogic PM8000 - PM8244 DIN rail mount meter + Remote display - int. metering

Product availability: Stock - Normally stocked in distribution facility

Price*: $6,304.00 USD

### Main

<table>
<thead>
<tr>
<th>Range</th>
<th>PowerLogic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product name</td>
<td>PowerLogic PM8000</td>
</tr>
<tr>
<td>Device short name</td>
<td>PM8244</td>
</tr>
<tr>
<td>Product or component type</td>
<td>Power meter</td>
</tr>
</tbody>
</table>

### Complementary

<table>
<thead>
<tr>
<th>Power quality analysis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Waveform capture</td>
</tr>
<tr>
<td>Harmonic distortion</td>
</tr>
<tr>
<td>Programmability (logic and math functions)</td>
</tr>
<tr>
<td>Voltage sag and swell detection</td>
</tr>
<tr>
<td>Up to the 63rd harmonic</td>
</tr>
<tr>
<td>Compliance report EN 50160</td>
</tr>
<tr>
<td>Power quality monitoring IEC 62586</td>
</tr>
<tr>
<td>Power quality measurement IEC 61000-4-30: class S</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Device application</th>
</tr>
</thead>
<tbody>
<tr>
<td>WAGES metering</td>
</tr>
<tr>
<td>Power monitoring</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Type of measurement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power factor (total)</td>
</tr>
<tr>
<td>Apparent power (total)</td>
</tr>
<tr>
<td>Active and reactive power (total)</td>
</tr>
<tr>
<td>Active and reactive power (per phase, rms)</td>
</tr>
<tr>
<td>Apparent power (per phase, rms)</td>
</tr>
<tr>
<td>Power factor (per phase, rms)</td>
</tr>
<tr>
<td>Voltage</td>
</tr>
<tr>
<td>Current</td>
</tr>
<tr>
<td>Frequency</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Supply voltage</th>
</tr>
</thead>
<tbody>
<tr>
<td>90...415 V AC +/- 10 % (45...65 Hz)</td>
</tr>
<tr>
<td>110...415 V DC +/- 10 %</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Network frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>50 Hz</td>
</tr>
<tr>
<td>60 Hz</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Line Rated Current</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 A</td>
</tr>
<tr>
<td>10 A</td>
</tr>
<tr>
<td>5 A</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Poles description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1P + N</td>
</tr>
<tr>
<td>3P + N</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Power consumption in VA</th>
</tr>
</thead>
<tbody>
<tr>
<td>18 VA at 415 V AC</td>
</tr>
</tbody>
</table>

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications.

Jul 4, 2019
<table>
<thead>
<tr>
<th><strong>Display type</strong></th>
<th>Remote LCD display</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Display resolution</strong></td>
<td>320 x 240 pixels QVGA</td>
</tr>
<tr>
<td><strong>Sampling rate</strong></td>
<td>256 samples/cycle</td>
</tr>
<tr>
<td><strong>Measurement current</strong></td>
<td>50...10000 mA</td>
</tr>
</tbody>
</table>
| **Analogue input type** | Current (impedance 0.3 mOhm)  
Voltage (impedance 5 MOhm) |
| **Measurement voltage** | 57...400 V AC 42...69 Hz between phase and neutral  
100...690 V AC 42...69 Hz between phases |
| **Frequency measurement range** | 42...69 Hz |
| **Number of inputs** | 3 digital 30 V AC  
3 digital 60 V DC |
| **Measurement accuracy** | +/- 0.2 % active energy  
+/- 0.1 % voltage  
+/- 0.1 % current |
| **Accuracy class** | Class 0.2 (active energy according to ANSI C12.20)  
Class 0.2S (active energy according to IEC 62053-22)  
Class 0.2 (active power according to IEC 61557-12)  
Class 0.5S (reactive energy according to IEC 62053-24)  
Class 0.5 (power factor according to IEC 61557-12)  
Class 0.2 (voltage according to IEC 61557-12)  
Class 0.2 (current according to IEC 61557-12) |
| **Number of outputs** | 1 pulse |
| **Information displayed** | Voltage  
Current  
Frequency  
Power  
Energy consumption  
Harmonic distortion |
| **Communication port protocol** | DNP3  
IEC 61850  
Modbus RTU 2-wire, : 115 kbauds,  
ION 2-wire, : 115 kbauds,  
Modbus TCP/IP  
Ethernet Modbus TCP/IP daisy chain: 10/100 Mbit/s,  
RSTP 801.1d 2004 |
| **Communication port support** | Ethernet  
RS485 (screw terminal block) |
| **Communication network type** | IPv6 (internet protocol) |
| **Data recording** | Data logs  
Event logs  
Min/max of instantaneous values  
Sequence of event recording  
Time stamping  
Trending/forecasting  
GPS synchronisation  
Alarm logs  
Harmonics logs  
Sag and swell logs  
Waveform logs |
| **Memory capacity** | 512 MB |
| **Web services** | Alarm notification by e-mail  
File upload/download via FTP  
HTTP server  
Web server  
Customizable home page  
Viewing of captured waveform |
| **Communication service** | DHCP  
NTP time synchronization  
SMTP e-mail notification  
RSTP support |
| **Cybersecurity** | Password protection  
Port hardening  
Robust security logs  
Enable/disable communication ports  
Syslog protocol support |
| **Mounting mode** | Flush-mounted  
Clip-on |
### Mounting support
- DIN rail (meter device)
- Framework (remote display)

### Provided equipment
- Remote display

### Installation category
- III

### Safety Construction
- IEC 61010-1: CAT III, 400...690 V ed. 3
- EN 61010-1: CAT III, 400...690 V ed. 3
- UL 61010-1: CAT III, 347...600 V ed. 3
- CSA C22.2 No 61010-1: CAT III, 347...600 V ed. 3

### Standards
- IEC 61557-12
- IEC 62053-22
- IEC 62052-11
- IEC 62053-24

### Product certifications
- N998
- China RoHS
- CULus
- CE

### Dimensions
- **Width**: 3.56 in (90.5 mm)
- **Depth**: 90.8 mm
- **Height**: 3.56 in (90.5 mm)
- **Product weight**: 18.62 oz (528 g)

### Environment

#### Electromagnetic compatibility
- Electrical fast transient/burst immunity test, conforming to IEC 61000-4-4
- Conducted RF disturbances, conforming to IEC 61000-4-6
- Immunity to impulse waves, conforming to IEC 61000-4-12
- Radiated radio-frequency electromagnetic field immunity test, conforming to IEC 61000-4-3
- Voltage dips and interruptions immunity test, conforming to IEC 61000-4-11
- Electrostatic discharge, conforming to IEC 61000-4-2
- Surge immunity test, conforming to IEC 61000-4-5
- Magnetic field at power frequency, conforming to IEC 61000-4-8
- Conducted and radiated emissions, conforming to EN 55022
- Conducted and radiated emissions, conforming to EN 55011
- Conducted and radiated emissions, conforming to FCC Part 15
- Conducted and radiated emissions, conforming to ICES-003
- Conducted RF disturbances 2...150 Hz, conforming to CLC/TR 50579
- Surge withstand, conforming to IEEE C37.90.1

#### IP degree of protection
- IP30 conforming to IEC 60529

#### Relative humidity
- 5...95 %

#### Ambient air temperature for operation
- -13...158 °F (-25...70 °C)

#### Ambient air temperature for storage
- -40...185 °F (-40...85 °C)

#### Operating altitude
- 9842.52 ft (3000 m)

### Ordering and shipping details

#### Category
- 09797 - POWERLOGIC PM8000 HARDWARE

#### Discount Schedule
- PL1

#### GTIN
- 00785901526148

#### Nbr. of units in pkg.
- 1

#### Package weight(Lbs)
- 1.4000000000000001

#### Returnability
- Y

#### Country of origin
- CA

### Offer Sustainability

#### RoHS (date code: YYWW)
- Compliant - since 1425 - Schneider Electric declaration of conformity

#### Product environmental profile
- Available

#### Product end of life instructions
- Available

#### California proposition 65
- WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov